



UNITING AVIATION

A UNITED NATIONS SPECIALIZED AGENCY

ASBU TF Progress Report

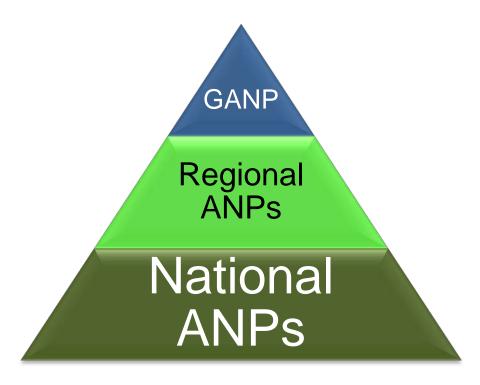
For: Prepared by: Date: ANI/WG/5 ASBU TF Rapporteur May 27 – 31, 2019



Contents

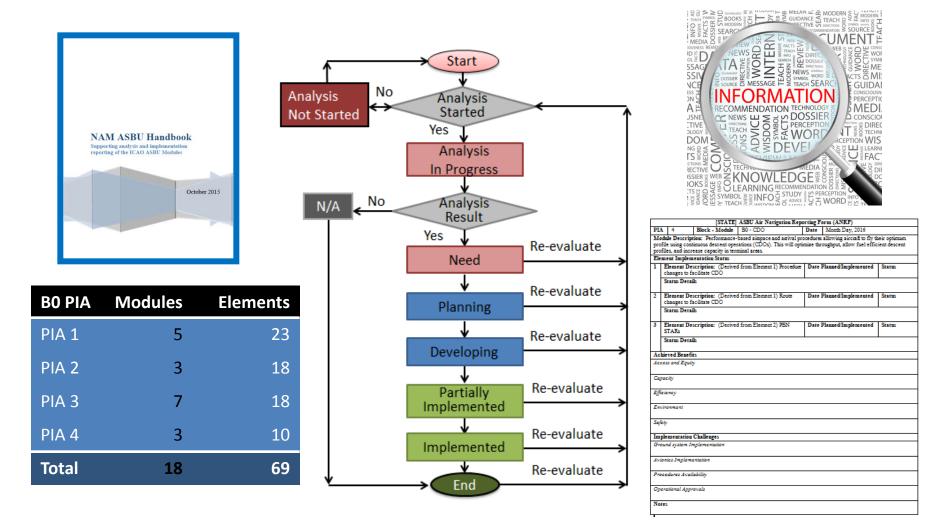
- 1. ICAO NACC National Air Navigation Plan (ANP) Workshops
- 2. CAR ASBU B0 Implementation Status
- 3. North American (NAM) ANP Volume III
- 4. NAM ASBU B0 Implementation Status
- 5. Regional Performance-Based Air Navigation Implementation Plan (RPBANIP)
- 6. NAM/CAR ASBU Implementation Status Report
- 7. Sixth Edition (2019) of GANP/ASBU

ICAO NACC National ANP Workshops



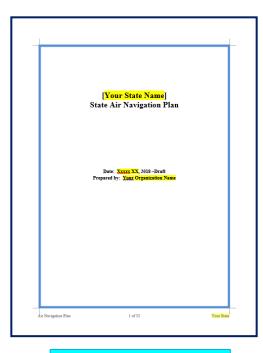
The 1st WS hosted by ICAO NACC at MEX in March 2018 The 2nd WS hosted by COCESNA at TGU in August 2018 The 3rd WS hosted by BCAA at BPB in November 2018

ICAO NACC National ANP Workshops Simple and Realistic Process



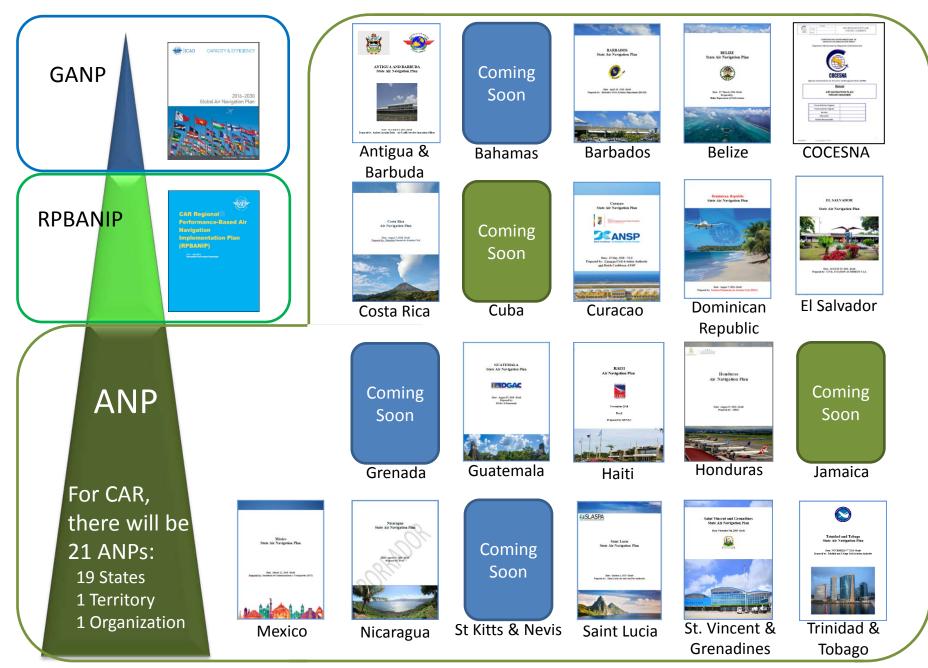
Using the Template

Table of Contents



- ASBURASI
- SASI

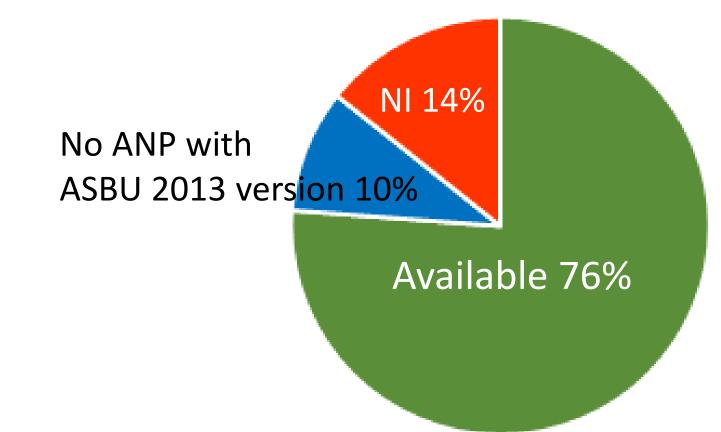
1.	Introduction	4
	1.1 Background	
	1.2 Environment	
	1.2.1 Authority of Your State/Organization	
	12.2 Airspace	
	1.2.3 Aerodromes	
	1.2.4 Traffic Forecast	(
	1.3 Planning Methodology	1
	1.4 Air Navigation Planning Process	
	1.4.1 Analysis and Work Flow Process	
	1.4.2 Monitoring and Reporting Results	9
	1.5 Problem Identification	
	1.5.1 Existing Problems	9
	1.5.2 Future Problems	
2.	Your State/Organization's Aviation System Block Upgrade (ASBU) Implementation Status	.11
	2.1 ASBU Block 0 Implementation Metrics, Targets, and Status	
	2.1.1 ASBU B0 Implementation Metrics and Targets	
	2.1.2 ASBU B0 Implementation Status Summary	
	2.2 ASBU Block J Implementation Targets and Status	. 20
	2.3 ASBU Block 2 Implementation Targets and Status	
	2.4 ASBU Block 3 Implementation Targets and Status	. 20
	ICAO NACC Regional Aviation System Improvements (RASI) Status	
4.	Your State/Organization's State Aviation System Improvements (SASI) Status	.21
	4.1 Equipment Upgradez	
	4.2 Procedure Upgrades	. Z.
	4.3 Infrastructure Upgrades	
	Your State/Organization State ANP Next Review Schedule	
	ppendix A: ANRF Explained	
	ppendix B: ASBU ANRF Template	
	ppendix C: RASI and SASI ANRF Templates	
	ppendix D: Your Organization ASBU Block 0 ANRFs	
	ppendix E: Your Organization ASBU Block 1 ANRFs	
	ppendix F: Your Organization SBU Block 2 ANRFs	
	ppendix G: Your Organization ASBU Block 3 ANRFs	
	ppendix H: Your Organization RASI ANRF:	
A,	ppendix I: Your Organization SASI ANRFs	.30



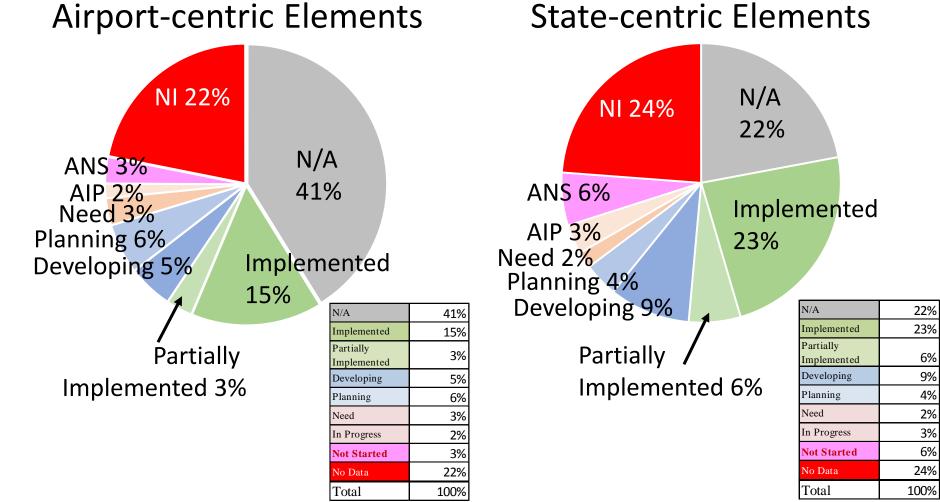
(As of Nov 2018)

CAR ASBU BO Implementation Status

National ANP and ASBU B0 Information Availability Central America and Caribbean Region



ASBU B0 Implementation Status Central America and Caribbean Region

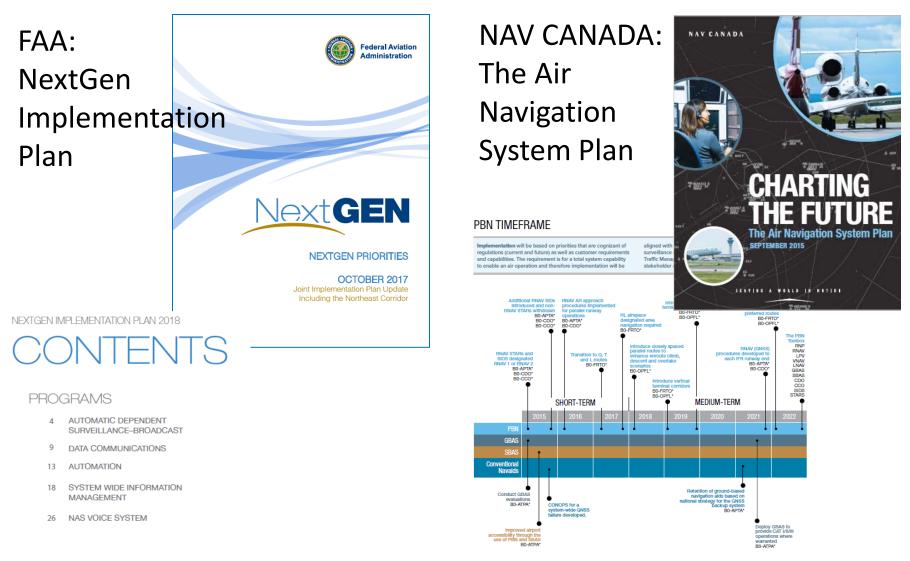


NAM ANP Volume III

- Guidance from ICAO NACC RO
- Two states: Canada and USA
- ASBU B0 Implementation Status
- NAM Regional Aviation System Improvements (RASI)
- Target delivery: Fall 2019

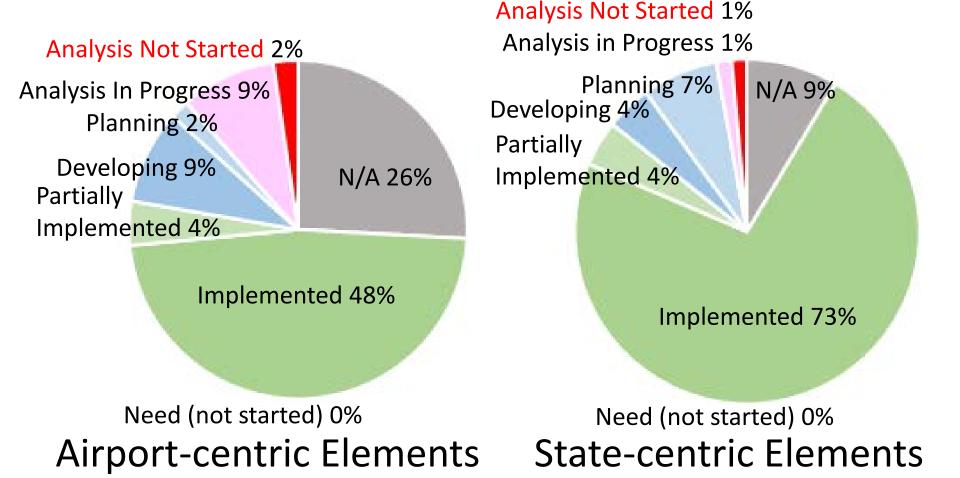
NORTH AMERICAN (NAM) AIR NAVIGATION PLAN	Ň
VOLUME III	
[FINAL DRAFT VERSION 1.0- April 11, 2019]	
SAMANY Volume III Ay	peil 11, 2019
	per 11, 2019

NAM's National ANP



Note: "See explanation of mapping to ICAO Aviation System Block Upgrades on page

NAM Region (as of Nov 14, 2018) ASBU BO Implementation Status



Central America and Caribbean Region -ANP Status (inc. ASBU B0 Implementation Status)

• Performance target: All 21 states/organizations to have ANPs that are aligned with the GANP/Regional ANP



 Bidirectional feedback between RPBANIP and state/organization ANPs

RPBANIP ICAO NACC Regional ANP



NAM/CAR ASBU Implementation Status Report



ICAO MID States ASBU Implementation Status Report

VOLUME III

MID AIR NAVIGATION PLAN

	Int'l AD		Convention		al Approaches	АРТА					сс	0		СДО				
	(Ref. MID ANP)	RWY	Precision		VOR or NDB	PBN PLAN	LNAV	LNAV	PBN	RNAV	PER	cco	PER	RNAV	PER	сро	PER	Remarks
			xLS	CAT		Update date		VNAV RWY	RWY	SID	AD		AD	STAR	AD		AD	
	BAHRAIN																	1
	OBBI	12L	ILS	I	VORDME									Y	Y			
		30R	ILS	I	VORDME		Y		Y					Y				
	Total	2	2		2	Y	2	0	2	0	0	0	0	2	1	0	0	
	%		100		100	Dec 2016	100	0	100	0	0	0	0	100	100	0	0	
	EGYPT																	7
	HEBA	14																
		32	ILS	I			Y		Y	Y	Y							
	HESN	17			VORDME		Y		Y	Y	Y			Y	Y			
		35	ILS	I	VORDME		Y		Y	Y				Y				
	HECA	05L	ILS	I	VORDME													
(999)				п	VORDME													
is (CCO)		05R	ILS	п														
Timelines																		
imennes																		
			ILS	I														
Dec. 2018	HEGN				VORDME					-	Y			-	Y			
					VORDME													
														Y				
				-				Y						Y				
	HELX										Y			Y	Y			
			ILS	I										Y				
	HEMA										Y			Y	Y			
														Y				
	HESH		ILS	I							Y			Y	Y			
														Y				
														Y				
Dec. 2018														Y				
. 2010		22									6	0	0	12	5	0	0	
			55		77	Oct 2017	95	36	95	59	86	0	0	55	71	0	0	9
	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $								9									
	OIKB				VORDME /													
		03R			NDB													
			ILS	I														
		21R																
	OIFM	08L			NDB													
		08R			NDB													
		26L			NDB													
		26R	ILS	I														

TABLE B0-APTA/CCO/CDO 3-1

B0 - CCO: Improved Flexibility and Efficiency Departure Profiles - Continuous Climb Operations Elements Applicability Performance Indicators/Supporting Targets Ti Metrics OBBI, HESN, HESH, De PBN SIDs Indicator: % of International 100% HEMA, HEGN, HELX, (for the identified Aerodromes/TMA with PBN SID OIIE OISS OIKB Aerodromes/TMAs) implemented as required. OIMM, OIFM, ORER. ORNI. OJAM. OJAI OJAO. OKBK. OLBA. Supporting Metric: Number of OOMS, OOSA, OTHH. OEJN, OEMA, OEDF, International Aerodromes/ TMAs with OERK, HSNN, HSOB, PBN SID implemented as required. HSSS, HSPN, OMAA. OMAD, OMDB, OMDW, OMSJ OBBI, HESN, HESH, International Indicator: % of International 100% De HEMA, HEGN, HELX. Aerodromes/TMA (for the identified aerodromes/ with CCO OIIE, OIKB, OIFM Aerodromes/TMAs) implemented as required. TMAs with ORER, ORNI, OJAM, OJAI, OJAQ, OKBK, CCO OLBA, OOMS, OOSA, Supporting Metric: Number of OTHH, OEJN, OEMA, OEDF. OERK. HSNN. International Aerodromes/TMAs with HSOB, HSSS, HSPN, CCO implemented as required. OMAA, OMDB, OMDW, OMSJ

ICAO EUR States ASBU Implementation Status Report

ASBU Implementation Monitoring Report

> ICAO EUR States Reference Period 2017

3.5 B0-CCO

This module is about improved flexibility and efficiency in departure profiles - continuous climb operations (CCO).

It consists in the deployment of departure procedures that allow an aircraft to fly its optimum aircraft profile taking account of airspace and traffic complexity with continuous climb operations.

The pictures indicate the implementation progress statistics, the correspondant status and planning dates for B0-CCO.

A slow progress for B0-CCO (19%) with only 2% increase when compared to the previous cycle, however an important increase is expected by 2018 (17%).

It must be noted that 10% of States declared this module as "Not applicable" and 17% have no final Plan yet.



4.5 B0-CCO

Comp C 20

2018

2019

2020

>= 20

III N/A

No Pla

IMPROVED FLEXIBILITY AND EFFICIENCY IN DEPARTUR PROFILES (CCO) ENV03 Continuos Climb Operations

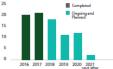


1. Progress for States in the LSSIP mechanism

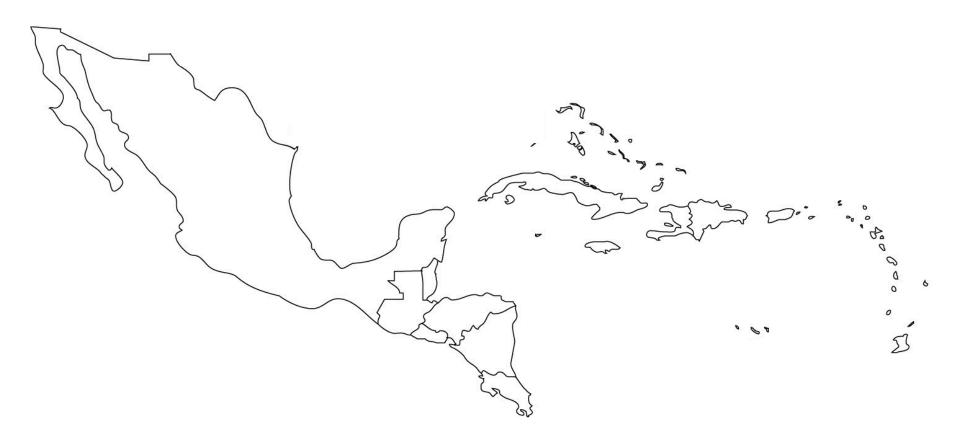
Main 2017 developments

The Objective is in this thay are if monitoring A.R it is a Local Objective, reporting is on a volvarity plant. Inserver, this Objective should be considered in relation to Objective EMOI-Continuous Descent Operations. A Insel of SAA Janos reported on its implementation status. By end of 2017, 42 apports reported the completion of this Objective. Another 30 reported that the implementation to se, this Objective should be considered in relation to Objective EMOI-Continuous Descent Operations. Newline (12) Aurports reported that the implementation is se, this Despite the objective objective objective objective objective EMOI-Continuous Descent Operations. Newline (12) Aurports reported that the implementation is due for EGGK-London Cathrick's Descenter 204. FOC: Not available
Estimated
achievement: Not available

Implementation progress inumber of airports completed the objecti



CAR Region



Sixth Edition of GANP/ASBU

- The 40th Session of the ICAO Assembly
 - ICAO's 193 Member States and a large number of international organizations are invited to the Assembly, which establishes the worldwide policy of the Organization for the upcoming triennium.
 - Scheduled for 24 September to 4 October 2019.
- Approval of the 6th Edition of GANP/ASBU



Sixth Edition of GANP/ ASBU

THE GLOBAL AIR NAVIGATION PLAN

The Clobal Air Navigation Plan [Doc 9750] is the ICAO's highest air navigation strategic document and the plan to drive the evolution of the global air navigation system, in line with the Global Air Traffic Management Operational Concept (GATMOC, Doc 9854) and the Manual on Air Traffic Management System Requirements (Doc 9882). It also supports planning for local and regional implementation.

In order to better communicate with technical and high-level managers and to not leave any State or stakeholder behind, a multilayer structure, tailored for the various audiences, is proposed for the sixth edition of the GANP. This multilayer structure of four layers, two global levels, a regional level and a national one, would also provide a framework for alignment of regional, sub-regional and national plans.

MULTILAYER STRUCTURE OF THE GANP

Click a level to navigate



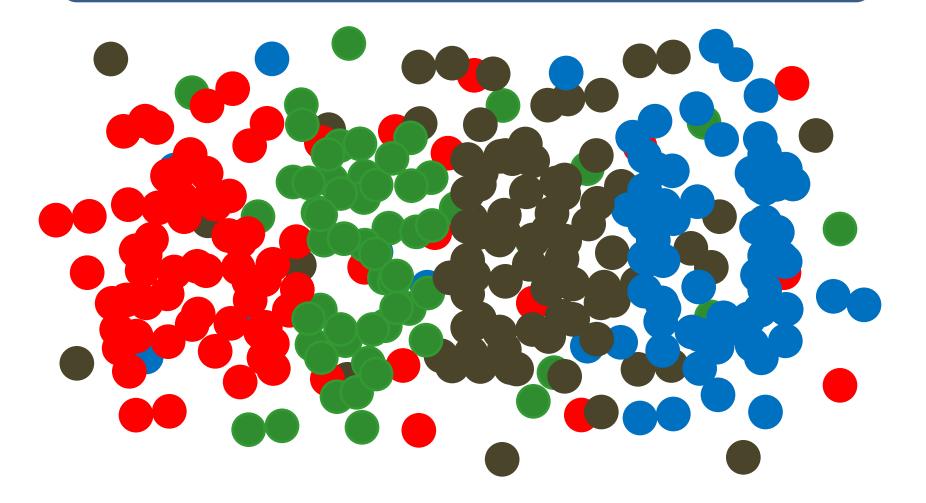


The GANP drives the evolution of the global air navigation system to meet the ever growing expectations of the aviation community. The purpose of the GANP is to equitably accommodate all airspace users operations in a safe, secure and cost-effective manner while reducing the aviation environmental impact. To this end, the GANP provides a series of operational improvements to increase capacity, efficiency, predictability, flexibility while ensuring interoperability of systems and harmonization of procedures. The <u>GASP</u> supports the implementation of the GANP by promoting the effective implementation of safety oversight and a safety management approach to oversight, including safety risk management to permit innovation in a managed way.

Sixth Edition of GANP/ASBU ASBU Description; Element Definition



Collecting and Connecting Dots





Midori Tanino ANI/WG ASBU TF Rapporteur Midori.Tanino@faa.gov